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H446 - Knowledge Organiser Section 9 - Computer law, moral, ethical and social issues

A-Level Computer Science

Legal, ethical, co	Legal, ethical, cultural and environmental vocab	Laws affecting Computer Science	Compu	ter Science
Legislation	Laws that are to be followed – can be criminal or civil, national and	General Data	2018	Controls the way data about living people is stored and
	international.	Protection		processed. Follows 8 principles:
Moral	Refers to an individual's principles of right and wrong.	Regulation		 Be fair and lawful
Ethics	A set of moral principles that govern the behaviour of a group or society.	(GDPR)		
Cultural	The integrated system of learned behaviour patterns within a group of a			
	society.			4. Only kept as long as inceded
Computer	The unauthorised access, use or damage to a computer system.			
Copyright	The legal right given to the creator of original content for a fixed number			/. Handled in line With peoples rights Not be transferred to countries without protection
	of years to prevent others from copying the material.			
Patent	A government licence giving sole rights to a creator for exclusive use,	Computer	1990	Makes it an offence to access or modify computer
	creation or sale of an invention.	Misuse Act		material without permission.
Investigatory	The governmental power to inspect and compel disclosure of facts			 Unauthorised access to computer material
Powers	relevant to an investigation.			 Unauthorised access with intent to commit or
Surveillance	To closely observe an individual or group, usually those suspected of			facilitate a crime
	committing crimes.			 Unauthorised modification of computer material
Interception	Action taken to prevent someone or something from continuing			 Making, supplying or obtaining anything which can
	something.		- 1	be used in computer misuse orrences
Carbon	The amount of carbon dioxide released into the atmosphere as a result	Copyright,	1988	Covers the copying or use of other peoples' work.
footprint	of the activities of a particular individual, organization, or community.	Designs and		Applies to all forms of work, including:
Dollution	The presence in or introduction into the environment of a substance	Patents Act		• Films
rollation	which has harmful or poisonous effects.			NUSIC III
Computer-	The use of software to control machine tools and related ones in the			Source code
alded manufacturing	manufacturing of work pieces.	Regulation of	2000	Regulates surveillance and investigation, and covers the
	A sensor is a device that detects and responds to some type of input	Investigatory		Interception of communications. Requires ISPs to assist in surveillance secretly
Sensors	from the physical environment. The specific input could be light, heat,			Enables mass surveillance of communications in
	motion, moisture, pressure, or any one of a great number of other			transit and monitoring of Internet activities
	environmental phenomena.			 Enables certain public bodies to demand that
Recycling	The conversion of waste material into material that can be reused.			someone hand over keys to protected information
Censorship	The suppression or prohibition of materials which are considered to be	•		 Prevents the existence of interception warrants and
	inappropriate, unacceptable or a threat to security.			any data collected with them from being revealed
Paradigm	A model for something which explains it or shows how it can be			in court
0000	produced.			

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Areas for discussion		Areas for discussion 2	
Driverless cars	A Venicle that is capable of sensing its environment and havigating without human input.		Ö
Manufacturing	Computer technology is used to produce items faster, more accurately and cheaper than can be done by hand.	Computers in the	g 0
Shopping	Online shopping has led to the closing of many high street stores. It has also helped people who find it difficult to get to a supermarket for their	workforce Al	를 과 작
Communication	Advancements in technology now make it much easier to communicate all over the world using social media, email, texting and phone calls. Information is spreads at a much faster rate.	Automated hu decision making so	4 5 6 5
Employment	The advancement of computer technology has made many new jobs, but has also put many people out of work in a number of industries (for example, manufacturing). Some jobs are now automated or controlled by robots.	Environmental an effects of	15 2 2 21
Developments in software	Computer software is becoming substantially more developed as time goes on – this is especially visible within the field of artificial intelligence.	ac ac Censorship and or	2 30
Artificial Intelligence	The theory and development of computer systems able to perform tasks normally requiring human intelligence, such as visual perception, speech recognition, decision-making, and translation between languages.		9 0 0
Healthcare	Technology is used to monitor patients, administer drugs and diagnose illnesses. Health apps are used more regularly on smartphones than ever before.	Monitoring co	200
Social networking	Many people of all ages use social networking sites to keep in touch with others. It is much easier to communicate in this way than it would be to send a card, for example.	Analysing Interpretation	지도 또 공
Rating culture	Services use star or score-based rating systems to judge people's performance. For example, the taxi company Uber does this to assess the performance of their drivers, based on what their passengers suggest.		이는로
Privacy	According to a recent study, Google is within a few years of having sufficient information to be able to track the exact movements and intentions of every individual, via Google Earth and other software they are developing. Greater advancements in technology could further risk our privacy.	Offensive via communications state be interested into the communications of the communic	e the train
Cookies	File, often unique identifiers, that are sent by web servers to web browsers and which may then be sent back to the server each time the browser request a page from the server. Can be used to recognise computers when they revisit a website, track users navigating the site, etc.	Layout, colour rig paradigms and do character sets sig	[은 은 은 은

	Computers have transformed the workplace and society as a whole
	CONTIDUCES HAVE CLAIMS OF THE WOLLD AND SOCIETY AS A WHOLE.
	People and organizations have become dependent on computers to
Computers in the	connect them to co-workers, vendors, customers and information.
workforce	Although computers have provided workers countless tools for business
	and easier access to information nearby or abroad, there are negative effects.
	A decision-making process that is totally automated and excludes any
Automated	human influence on the outcome. A process might still be considered
decision making	solely automated if a human inputs the data to be processed, and then
	the decision-making is carried out by an automated system.
	Technology has had an impact on the environment that is both positive
Environmental	and negative. The use of computers affects the environment in different
effects	ways, such as energy consumption, technological waste, and the impact
	of remote working.
	Internet censorship is the control or suppression of what can be
	accessed, published, or viewed on the Internet enacted by regulators, or
Censorship and	on their own initiative. Individuals and organizations may engage in self-
the Internet	censorship for moral, religious, or business reasons, to conform to
	societal norms, due to intimidation, or out of fear of legal or other
	consequences.
	Businesses monitor employees to improve productivity and protect
Monitoring	corporate resources. The main intention is to prevent unacceptable
behaviour	behaviour in the first place and, should that effort fail, to curtail the
	behaviour before it can have a negative effect on the business.
Analysing	Information about you is being gathered all the time. Each time you set
Cucaca	up an account online, your details are being harvested by someone.
per soriar	Every account you have could potentially be harvested, analysed and
Intormation	sold on to advertisers. Data mining is regularly used for this purpose.
	The Internet and phone communications have provided opportunities for
	those people who want to harass others in some way. This can include
	sending malicious emails or texts, following them around on the Internet
Offensive	via their social websites and posting hurtful messages (called 'cyber-
communications	stalking'), posting hurtful messages to people they know, pretending to
	be someone they are not and posting hurtful messages and posting
	intimate pictures of someone, perhaps from when they were in a
	relationship.
Lavout. colour	Not all cultures use the Roman alphabet or read and write from left to
naradiams and	right, for example. The use of colour in the design of websites,
paradigins and	documents, programs and other types of media has a varying
cnaracter sets	significance, depending upon the designer's background and origins.